BC Geological Survey
Assessment Report
39444

Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Rock and Soil Geochemistry

TOTAL COST: $6588.10

AUTHOR(S): Tom Kennedy **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **YEAR OF WORK:** 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event No. 5832464, 5832467

PROPERTY NAME: Kenco

CLAIM NAME(S) (on which the work was done): KENCO 1-18(1062583), KENCO 02-19(1066463)

COMMODITIES SOUGHT: Lead,Zinc,Silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 82FSE128

MINING DIVISION: Fort Steele **NTS/BCGS:** 82F

LATITUDE: 49 ° 07 '027.6 " **LONGITUDE:** 116 ° 03 '59.9 " **(at centre of work)**

OWNER(S):

1) Darlene Lavoie 2)

MAILING ADDRESS:

2290 DeWolfe Ave. Kimberley BC, Canada V1A 1P5

OPERATOR(S) [who paid for the work]:

1) Kootenay Silver 2)

MAILING ADDRESS:

1650- 1075 W. Georgia St. Vancouver,BC V6E 3C9

Canada

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Middle Proterozoic Aldridge formation sediments and gabbro, Pb/Zn soil anomaly

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 7626,20827,39068

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	59 pXRF Zn,Pb	1062583,1066463	$3200.00
Silt			
Rock	31 pXRF Zn,Pb, 6 Lab Assay Multi-Element ICP	1062583,1066463	$3388.10
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$6588.10

Report on XRF Soil and Rock Geochemistry
For

The KENCO Property
Summer 2019

By
Tom Kennedy

Fort Steele
Mining Division

NTS
82F020

UTM Co-Ordinates:
568400E, 5441250N

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1:00 SUMMARY

Fifty one soil samples and 31 rock samples were collected and analyzed for lead and zinc using a portable XRF unit, as well as six samples analyzed by Bureau Veritas Labs of Vancouver, BC. Several extremely high levels for lead and zinc were obtained from soil samples as well as some elevated levels of lead in rock samples analyzed with the pXRF and laboratory.

2.00 INTRODUCTION

This report describes the results of a soil and rock sample program carried out on the Kenco claim group carried out in the summer of 2019.

2.10 Location and Access

The Kenco property is located along the western side of the Moyie River valley near the confluence of Englishman Creek roughly 5km to the north of the small community of Yahk. The property can be accessed by pick-up truck via the Johnson Creek logging haul road which intersects Highway 3 at the village of Yahk.

2.20 Property

The Kenco claim group consists of two mineral tenures 1062583(KENCO 1-18) and 1066463(KENCO 02-19), in total covering 422.8Ha of area (Figure 2). The claim is located in the Fort Steele mining division and is owned by Darlene Lavoie of Kimberley BC, Canada.

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2.30 Physiography

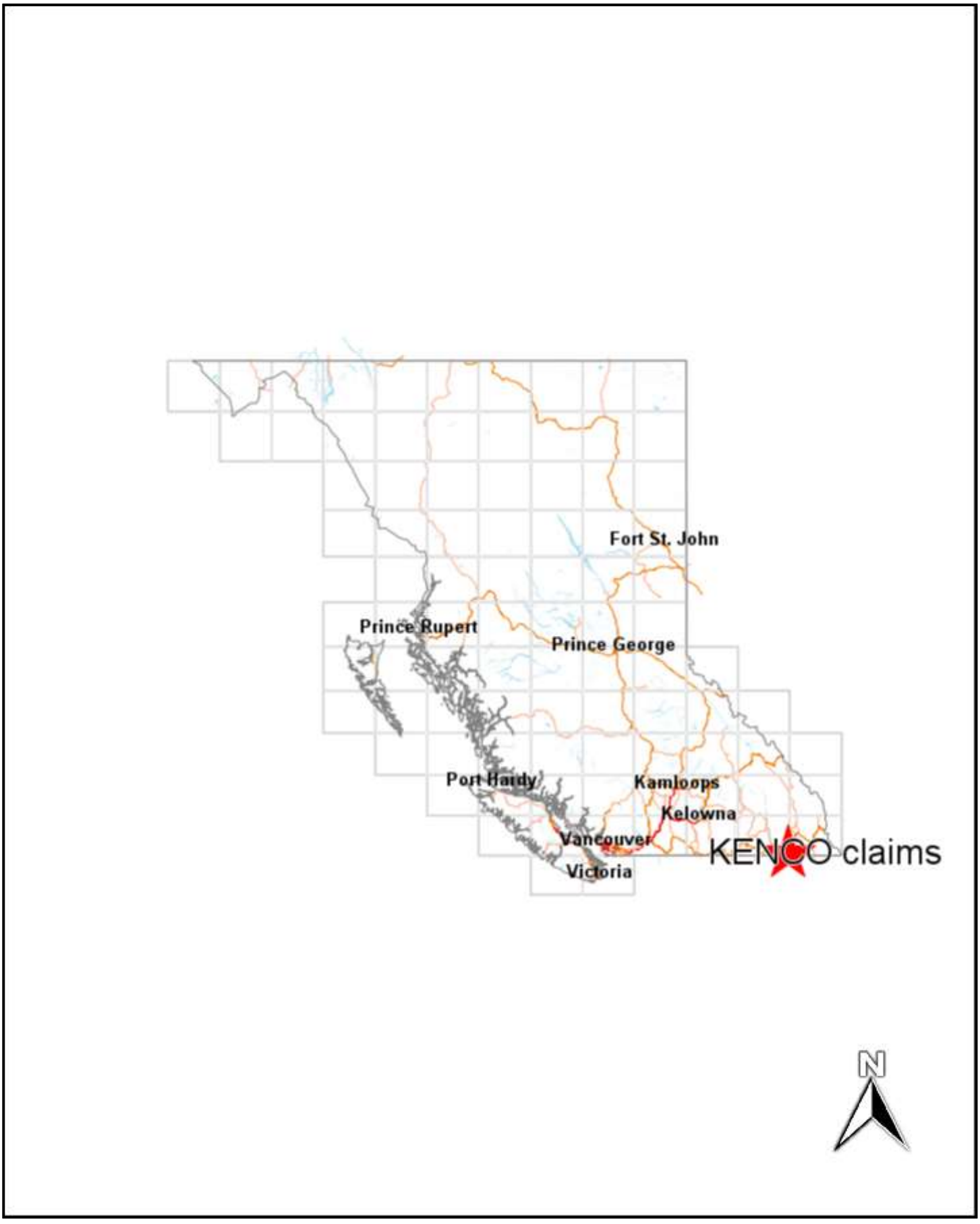
The Kenco claims cover moderately rugged topography on the western side of the Moyie River valley near the confluence of Englishman creek. Elevations on the claim range from 880m to 1320m. Outcrops form a series of benches from the valley floor to uphill to the west. Some of the benches act as catchments for water and form swampy meadows.

Forest cover is a mix of conifers with some deciduous species occurring in areas of more moisture. Roughly half of the property has been logged in the past and is in various states of regeneration.

2.40 History of Previous Exploration

The Kenco claim group covers the ENG 1 Minfile 82FSE128 occurrence which consists of a high lead and zinc soil anomaly. The soil sampling program with some geology is referenced in Aris assessment report 7626. Kokanee Res. drilled two holes to test geophysical targets in the area of the soils (Aris report 20827). This drilling encountered

Figure 1: Claim Location Map



Apr/12/2021
Scale 1:21948110 This map is generated from MapPlace.

Figure 2: Claim Location

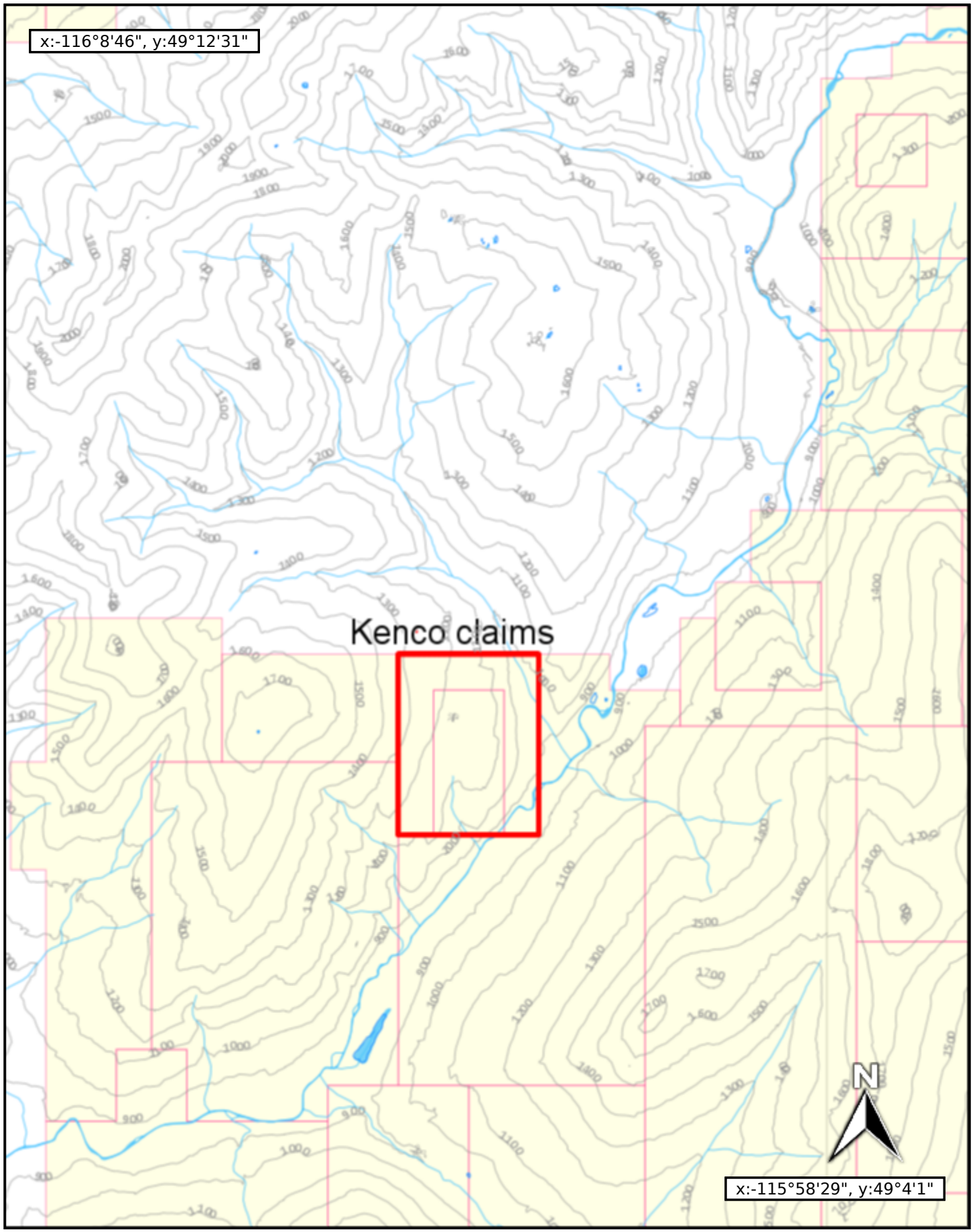
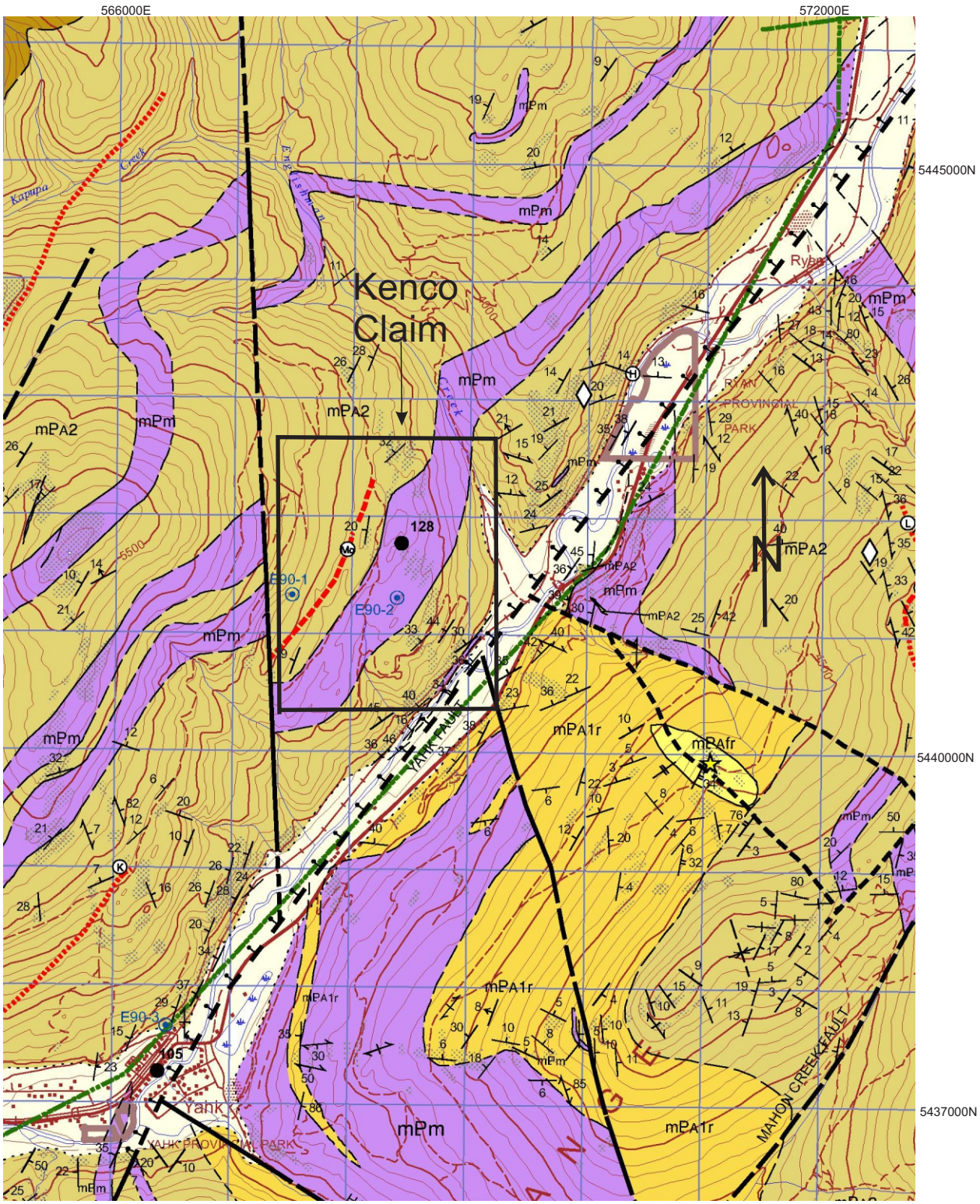


Figure 3: Geology



some mineralized(mostly pyrrhotite and pyrite) sedimentary horizons but an adequate explanation for the highly elevated soil samples was not obtained.

2.50 Purpose of work

The purpose of the soil and rock geochemistry program carried out on the Kenco claim group in 2019 was to re-establish an historic lead and zinc soil anomaly and if possible identify an outcrop source.

3.00 GEOLOGY

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The Kenco claim group is underlain by sediments and gabbroic intrusive bodies belonging to the middle Precambrian Aldridge formation (Figure 3). Government mapping of surface exposures places the geology within the middle Aldridge formation and is dominated by thin to thick bedded rusty to grey weathering quartz wacke and siltstone.

The claim group is on the western limb of the regional Moyie Anticline and sediments on the claim group strike to the northeast with moderate dips. The northeast trending Yahk fault occurs just to the east of the claim group.

One large gabbro body is mapped on the claims with a similar northeast trend as the Yahk fault. Previous exploration indicates that this intrusion is in part sill and dyke like following parallel to stratigraphy in general but in places having an irregular cross-cutting contact.

4.00 ROCK and SOIL GEOCHEMISTRY

4.10 Rock and Soil Sample Procedure

Rock samples

Rock samples were collected in the field from both float and outcrops using sledge hammers and geo-tools. A UTM co-ordinate was taken at each site using a handheld GPS unit and a description was recorded and can be found in Appendix 1.

Samples collected for portable XRF analysis were labeled using a black marker with a field designation and placed in a large plastic sample bag. Samples were later sorted and a Thermal Fischer Scientific Niton XL3 portable XRF unit was used to take three thirty second shots using the main filter setting. Shots were taken on the un-weathered surface of the sample and the averaging function of the unit was used to create an average of the three in an attempt to create a more representative reading.

Samples for laboratory assay were placed within labelled plastic sample bags with a corresponding labelled ribbon left at the site in the field and one placed within the sample bag. Lab samples were then tied shut with ribbon and when the sample program was completed a batch was sent to Bureau Veritas Labs of Vancouver, B.C. Canada. These samples were assayed using the AQ201 ICP package.

Locations for both XRF and laboratory assays are plotted with values for lead and zinc on Figure 4B. Results for lead, zinc, copper, arsenic, nickel, iron, manganese, strontium,

and molybdenum in ppm of the XRF samples are found in Appendix 2 along with the laboratory assay certificate for the other samples.

Soil Sample Procedure

Soil samples were collected from the "B" soil horizon using a geo-tool. Soil was placed into Kraft paper bags labelled with a sample number in black felt pen. A ribbon with sample number was left in the field at the sample site and a UTM co-ordinate was taken with a handheld GPS unit. Samples were then air dried and then sieved using an 80 mesh screen. Sieved material was then placed in labeled plastic Ziploc bags. One thirty second shot was taken on the main filter setting with the portable XRF unit.
Soil sample locations with values for lead and zinc in ppm are plotted on Figure 4A.
XRF results for lead, zinc, copper, arsenic, nickel, iron, manganese, strontium, and molybdenum in ppm are found in Appendix 2 and locations can be found in Appendix 1.

4.20 Discussion of Results

Soil Samples

In total fifty nine soil samples were collected and analysed during the 2019 program. Soil samples were collected in two main areas on the property one in the vicinity of a historically identified anomaly and the other to the south.

The area of the previously identified anomaly is in and around a swampy meadow and sampling was done to better determine its location and validity. Samples in this area returned some extremely high values for both lead and zinc with 17 samples running above 50ppm for lead and 18 samples higher than 300 ppm for zinc. The highest value for lead was 1277ppm at station KN-27 and the highest zinc sample ran 992ppm at station KN-15.

The area of highest lead values runs in a rough north northeast trend and is roughly 800m in length in part paralleling a swampy field on its western edge. Anomalous samples are well above the level of the swamp, and do not appear to be an effect of the swamp acting as a concentrating environment.

High zinc values occur both coincident with the above lead anomaly as well as across the south end of the swampy meadow.

The southern cluster of samples was a test of the same stratigraphy as the northern anomaly on trend. Only slightly elevated levels of zinc were obtained from these samples.

Rock Samples

Six rock samples were collected along the contact area of a gabbro sill/dyke and sediments in the vicinity of the high lead in soil samples. This material consisted of some limonitic quartz, manganese and iron rich chloritic brecciated sediments. Samples returned weak levels of zinc with one sample CK19-91 above 150 ppm (151ppm). Sample CK19-93 returned 2916ppm copper and 263.8ppm lead as well as 168.4ppb gold. One other sample returned 136.4ppb for gold.

Figure 4A Soil Sample Sites with Values for Lead(ppm)/Zn(ppm)

567,600 568,000 568,400 568,800 569,200

5,442,750 5,442,000 5,441,250 5,440,500 5,439,750 5,439,000

KN-51(0/121)
KN-50(7/113)
KN-40(15/94)
KN-49(7/229)
KN-41(7/145)
KN-39(14/180)
KN-42(11/207)
KN-48(19/348)
KN-47(9/191)
KN-38(10/108)
KN-43(48/476)
KN-46(0/137)
KN-37(7/84)
KN-24(184/431)
KN-23(18/494)
KN-45(0/77)
KN-34(12/150)
KN-36(9/86)
KN-44(0/73)
KN-25(83/369)
KN-35(13/105)
KN-30(13/94)
KN-26(150/342)
KN-31(7/85)
KN-29(71/231)
KN-33(15/117)
KN-13(470/705)
KN-27(1277/551)
KN-32(9/83)
KN-12(41/169)
KN-28(263/682)
KN-11(78/112)
KN-14(183/586)
KN-10(62/91)
KN-15(120/992)
KN-22A(12/562)
KN-22D(22/145)
-22B(21/812)
-22C(66/731)
KN-22(7/461)
KN-16(148/737)
KN-21(9/234)
KN-17(74/355)
KN-1(130/268)
KN-20(0/100)
KN-2(76/344)
KN-19(0/119)
KN-3(51/445)
KN-18(0/78)
KN-9(20/112)
KN-4(60/276)
KN-8(18/118)
KN-5(12/169)
KN-6(18/161)
KN-7(0/134)
KN-52(11/137)
KN-53(0/159)
KN-54(12/117)
KN-59(11/146)
KN-55(8/113)
KN-56(15/96)
KN-57(14/123)
KN-58(8/124)

Moyie River
Christopher Creek
English Boy Creek

LEGEND

Sample Site

KN-X(Pb(ppm)/Zn(ppm))

Sample No | Elements Plotted

0 0.10 0.2 km

1: 5,000.00

BRITISH COLUMBIA

iMapBC Mapping

Legend

UTM Gridlines (1:1,000)
UTM_ZONE
7 Zone
8 Zone
9 Zone
10 Zone
11 Zone

Water - Rivers, Creeks, Shorelines, etc. - 1
FCODE
Canal
Dam
Dam - Beaver
Ditch
Falls
Flume
Rapids
River or Stream - Definite
River or Stream - Dry
River or Stream - Indefinite
River or Stream - Left Bank
River or Stream - Right Bank
Dam - section Base
Flooded Land - Inundated
Lake - Definite
Lake - Indefinite
Lake - Intermittent
Reservoir - Definite
Reservoir - Indefinite
Reservoir - Intermittent
Marsh
Swamp
Glacier
Icefield
Breakwall or Breakwater - Large
Dyke or Levee
Island - Definite
Sand Bar
Sea Wall
Coastline - Definite
Coastline - Indefinite

Contours - 20K
FCODE
Contour - Index
Contour - Index Indefinite
Contour - Index Depression
Contour - Index Depression Indefinite
Contour - Intermediate
Contour - Intermediate Indefinite
Contour - Intermediate Depression
Contour - Intermediate Depression Indefinite

Transportation - Roads, Railroads, etc. - 2
FCODE
Airfield
Airport
Airstrip
Airport Abandoned
Ferry Route
Road
Road (Gravel Undivided) - 1 Lane
Road (Gravel Undivided) - 2 Lanes
Road (Gravel Undivided) - U C - 1 Lane
Road (Gravel Undivided) - U C - 2 Lanes
Road (Paved Divided) - Not Elevated - Lane Eac
Road (Paved Divided) - Not Elevated - 2 Lanes Ea
Road (Paved Divided) - U C - Not Elevated - 1 Lan Way
Road (Paved Divided) - U C - Not Elevated - 2 Lan Way
Road (Paved Undivided) - Not Elevated - 1 Lane
Road (Paved Undivided) - Not Elevated - 2 Lanes
Road (Paved Undivided) Not Elevated - 3 Lanes
Road (Paved Undivided) - Not Elevated - 4 Lanes
Road (Paved Undivided) Not Elevated - More Than
Road (Paved Undivided) U C - Not Elevated - 1 La
Road (Paved Undivided) - U C - Not Elevated - 4 L
Road (Unimproved)
Road Over-grown
Road (Loose access Dry Weather)
Cut (Roadway)
Embankment or Fill (Roadway)
Retaining Wall
Snow Shed (Railway)
Trail
Trail (Skid)
Bridge - Foot
Bridge - Trestle
Tunnel
Bridge
Rail Line (Double Track)
Rail Line (Double Track) Light Rail Transit - Elevate
Rail Line (Double Track) Light Rail Transit - Surface
Rail Line (Multiple Track)
Rail Line (Single Track)
Rail Line - Abandoned Track
Rail Line (Single Track) ht Rail Transit - Surface
Spur

Datum: NAD83
Projection: NAD_1983_BC_Environment_Albers

Key Map of British Columbia

Figure 4B XRF and Lab Assay Rock Sample Sites with Values for Lead(ppm)/Zn(ppm)

CKKEN-6(13/52)
KC-3(0/34)
CKKEN-5(9/47)
CKKEN-1(0/45)
-2(7/54)
CKKEN-3(0/64)
-4(0/46)
CKKEN-7(36/100)
CKKEN-8(8/23)
CKKEN-9(0/50)
KC-4(36/102)
CKKEN-10(0/32)
CKKEN-11(45/68)
KC-93(20/47)
KC-94(49/160)
KC-7(61/76)
KC-8(110/133)
KC-95(9/34)
-95a(0/0)
-95b(16/29)
KC-9(555/175)
CK19-88(1.4/43)
-89(11.9/119)
-90(3.9/83)
-91(5.0/152)
-92(17.7/125)
-93(263.8/92)
KC-10(19/61)
-11(0/0)
KC-96(109/97)
-96a(78/52)
KC-97(129/169)
KC-99(283/64)
KC-98(0/136)
CKKEN-12(29/170)
-12a(8/166)
-12b(14/149)

567,200 567,600 568,000 568,400 568,800 569,200

5,442,750 5,442,000 5,441,250 5,440,500 5,439,750

Christopher Creek
Moyie River

iMapBC Mapping

Legend

UTM Gridlines (1:1,000)
UTM_ZONE
7 Zone
8 Zone
9 Zone
10 Zone
11 Zone

Water - Rivers, Creeks, Shorelines, etc. - 1
FCODE
Canal
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River or Stream - Definite
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Lake - Intermittent
Reservoir - Definite
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Reservoir - Intermittent
Marsh
Swamp
Glacier
Icefield
Breakwall or Breakwater - Large
Dyke or Levee
Island - Definite
Sand Bar
Sea Wall
Coastline - Definite
Coastline - Indefinite

Contours - 20K
FCODE
Contour - Index
Contour - Index Indefinite
Contour - Index Depression
Contour - Index Depression Indefinite
Contour - Intermediate
Contour - Intermediate Indefinite
Contour - Intermediate Depression
Contour - Intermediate Depression Indefinite

Transportation - Roads, Railroads etc. - 2
FCODE
Airfield
Airport
Airstrip
Airport Abandoned
Ferry Route
Road
Road (Gravel Undivided) - 1 Lane
Road (Gravel Undivided) - 2 Lanes
Road (Gravel Undivided) - U C - 1 Lane
Road (Gravel Undivided) - U C - 2 Lanes
Road (Paved Divided) - Not Elevated - Lane Eac
Road (Paved Divided) - Not Elevated - Lanes Ea
Road (Paved Divided) - U C - Not Elevated - 1 Lan Way
Road (Paved Divided) - U C - Not Elevated - 2 Lan Way
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Road (Paved Undivided) Not Elevated - 3 Lanes
Road (Paved Undivided) - Not Elevated - 4 Lanes
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Road (Paved Undivided) U C - Not Elevated - 1 La
Road (Paved Undivided) - U C - Not Elevated - 4 L
Road (Unimproved)
Road Over-grown
Road (Loose access Dry Weather)
Cut (Roadway)
Embankment or Fill (Roadway)
Retaining Wall
Snow Shed (Railway)
Trail
Trail (Skid)
Bridge - Foot
Bridge - Trestle
Tunnel
Bridge
Rail Line (Double Track)
Rail Line (Double Track) Light Rail Transit - Elevate
Rail Line (Double Track) Light Rail Transit - Surface
Rail Line (Multiple Track)
Rail Line (Single Track)
Rail Line - Abandoned Track
Rail Line (Single Track) ht Rail Transit - Surface
Spur

LEGEND

Sample Site
KC-
CK19- X(Pb(ppm)/Zn(ppm))
CKKEN-
Sample No Elements Plotted

0 0.10 0.2 km
1: 5,000.00

Datum: NAD83
Projection: NAD_1983_BC_Environment_Albers

Key Map of British Columbia

Thirty one samples were collected and analyzed using a pXRF. Ten samples gave results above 100ppm for zinc with a high 175ppm at site KC-9. Seven samples gave values above 50ppm with five of these above 100ppm. The program high for lead was 555ppm at site KC-9 also the high for zinc. The elevated samples for lead occur in scattered outcrops above and around the lead in soil anomaly.

5.00 CONCLUSIONS AND RECOMMENDATIONS

The soil and rock sampling program conducted in 2019 on the Kenco claim group successfully re-established a historically referenced lead, zinc soil anomaly. This anomaly does not appear to be an effect of concentrating of metals in a swampy meadow as the bulk of the anomaly especially for lead occurs above level of this meadow.

Several rock samples analyzed with the pXRF unit returned elevated levels for lead within the area of the anomaly; however they do not appear to represent the only cause for the anomaly as the levels do not reach the highs of the soil samples.

Two of the six samples sent in for laboratory assay returned anomalous values for gold and represent another target type in the area.

Geological mapping as well as additional prospecting and sampling should be carried out in the area of the soil anomaly. Some ground geophysics could also be attempted to locate a potential source of the soil anomaly.

Two drill holes completed by Kokanee Res. on the property 1990 if still in existence should be re-logged and analyzed with a pXRF in case some anomalous stratigraphy was missed in the initial logging.

6.00 STATEMENT OF EXPENDITURES

Tom Kennedy: June 6, 12, Aug 25, Sept. 27, 28, 2019	
5 days @ $500/day	$2500.00
Craig Kennedy: June 6, 12, Aug. 17, 18, 25, 2019	
5 days @ $500.00/day	$2500.00
3 Vehicle days @ $150.00/day	$450.00
6 Rock Samples-Bureau Veritas Labs	$188.10
pXRF	$400.00
Misc.	$50.00
Tom Kennedy—Report Writing	$500.00
Total Costs	**$ 6588.10**

7.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Tom Kennedy certifies that:

1) I am an independent consulting prospector residing at 1082 Cote Rd, South Slocan, B.C.
2) I have been actively involved in mining and mineral exploration for the past 27 years.
3) I have been employed by individuals as well as Junior and Major mining companies.
4) I have created and optioned numerous grass-roots mineral exploration properties.

Tom Kennedy

_____

Prospector

8.00 REFERENCES

Glombick, P., Brown, D. A., and MacLeod, R. F. (compilers) 2010: Geology, Yahk, British Columbia, Geological Survey of Canada Open File 6153, scale 1:50000.

APPENDIX 1

Sample Locations and Descriptions

Sample No.	Utm East	Utm North	Description
CKKEN-1	568153	5442408	Concretional bed -40cm with garnet
CKKEN-2	568153	5442408	Same as above
CKKEN-3	568155	5442402	Black mica(dark green) actual size
CKKEN-4	568155	5442402	Same as above some concretions
CKKEN-5	568156	5442415	Similar to above -rotten concretions
CKKEN-6	568149	5442433	Same as above some concretions
CKKEN-7	568159	5442372	Black silica, garnet concretion
CKKEN-8	568155	5442364	Washed out cream colored siltstone with iron pocks
CKKEN-9	568157	5442358	Rock developing black concretion
CKKEN-10	568154	5442336	Same as above
CKKEN-11	568271	5442020	Getting black -concretion with pyrite and pyrrhotite
CKKEN-12	567983	5441263	Hangingwall sediments to KENCO dio-gabbro intrusion -disrupted with white freckles no obvious sulfide
CKKEN-12a	567983	5441263	Same as above
CKKEN-12b	567983	5441263	Same as above
KC-3	568106	5442423	Quartz veinlet/crackle breccia with massive chlorite and limonite in veinlets- thicker bedded wacke host -calved outcrop
KC-4	568129	5442335	Cooked up marker mud interval with chlorite/green sericite and pyrite -some pyrrhotite and maybe chalcopyrite- 1m thick interval XRF sample
KC-7	568168	5441881	Medium bedded grey wacke -fine grained with disrupted top interval -some white spotting -XRF sample
KC-8	568171	5441866	1m thick wacke with sericite flakes and a little coarser grained quartz -some concretions with pink garnet and darker intervals -leached out brownish rinds
KC-9	568192	5441795	Concretion with pink garnet and rotted out limonitic patches -XRF sample
KC-10	568206	5441770	Sulphidic pseudo marker interval black and white bands with some white spotting -XRF sample
KC-11	568209	5441771	Dark and light beds with white spotting in footwall to above and 4m into hangingwall of gabbro
KC-93	568168	5441996	Interbedded wacke and marker units with some garnet concretions
KC-94	568171	5441892	Base of outcrop above soil plot 13 and 14 area with dark concretions with pink garnet
KC-95	568148	5441866	Top of outcrop -1to2m wide interval of coarser whitish quartzite with some sericite
KC-95b	568148	5441866	Same as above
KC-95a	568148	5441866	Same as above
KC-96	568136	5441770	Thin bedded marker?mud with some pyrrhotite
KC-96a	568136	5441770	Same as above
KC-97	568111	5441541	Wacke bed with dark colored pink garnet concretional beds
KC-98	568028	5441372	Darker more conchoidal/silicified wacke with some pyrrhotite spots -lathe casts around
KC-99	568007	5441384	Quartzite and grey wacke with biotite and sericite with limonitic spots

Sample No.	UTM E	UTM N	Description
CK19-88	568208	5441773	Narrow zone of breccia with limonite wad and manganese chlorite - in sediments hangingwall to gabbro dyke/sill
CK19-89	568208	5441773	Same as above
CK19-90	568208	5441773	Same as above
CK19-91	568208	5441773	Same as above
CK19-92	568208	5441773	Same as above
CK19-93	568208	5441773	Same as above

APPENDIX 2

pXRF Sample Results for Rock and Soil Sample
as well as Assay Certificates

SAMPLE	UTM E	UTM N	Pb(ppm)	Zn(ppm)	Cu(ppm)	As(ppm)	Ni(ppm)	Fe(ppm)	Mn(ppm)	Sr(ppm)	Mo(ppm)
KN-1	568202	5441760	30	268	43	0	0	31501	698	141	4
KN-2	568186	5441736	76	344	45	8	44	31696	500	131	4
KN-3	568180	5441698	51	445	42	7	42	38837	802	115	4
KN-4	568169	5441660	60	276	31	0	0	38032	1313	154	5
KN-5	568157	5441616	12	169	162	7	62	76448	832	105	0
KN-6	568143	5441590	18	161	58	0	58	49134	732	121	0
KN-7	568119	5441556	0	134	43	0	46	37121	831	130	0
KN-8	568060	5441630	18	118	24	8	32	24518	523	145	5
KN-9	568067	5441668	20	112	34	0	30	24902	324	138	4
KN-10	568137	5441856	62	91	37	0	34	24570	259	95	0
KN-11	568158	5441893	78	112	27	0	0	27049	534	121	0
KN-12	568169	5441924	41	169	26	7	29	27633	1525	119	0
KN-13	568190	5441930	470	705	20	0	55	23794	684	147	0
KN-14	568182	5441864	183	586	23	0	39	25147	465	123	0
KN-15	568183	5441838	120	992	23	0	0	21123	741	244	0
KN-16	568177	5441802	148	737	32	0	0	23351	898	175	0
KN-17	568186	5441766	74	355	24	0	27	25247	819	120	0
KN-18	568325	5441680	0	78	54	0	0	28306	867	153	0
KN-19	568300	5441702	0	119	47	0	0	36593	1327	143	4
KN-20	568270	5441740	0	100	44	0	55	41106	956	132	0
KN-21	568251	5441775	9	234	36	0	0	33673	2661	148	0
KN-22	568244	5441791	7	461	28	7	0	31354	953	173	0
KN-22A	568226	5441806	12	562	26	6	34	33388	1104	168	0
KN-22B	568229	5441808	21	812	36	0	0	39499	2669	166	0
KN-22C	568226	5441801	66	731	38	0	0	54225	1192	146	5
KN-22D	568236	5441809	22	145	67	14	0	147592	542	65	8
KN-23	568249	5442011	18	494	47	0	31	23364	491	146	4
KN-24	568227	5442003	184	431	39	0	0	24635	738	163	7
KN-25	568218	5441980	83	369	29	0	0	23512	713	156	6
KN-26	568204	5441963	150	342	46	0	36	27006	434	123	6
KN-27	568203	5441945	1277	551	31	0	40	27326	386	111	5
KN-28	568194	5441925	263	682	32	0	51	27713	430	114	5
KN-29	568194	5441962	71	231	29	0	31	28196	588	114	5
KN-30	568173	5441974	13	94	45	0	0	25355	742	104	7
KN-31	568128	5441965	7	85	36	0	0	24418	549	147	5
KN-32	568097	5441945	9	83	35	0	0	23886	723	171	5
KN-33	568077	5441961	15	117	29	0	0	26105	288	169	5
KN-34	568050	5442012	12	150	20	0	0	24563	398	174	5
KN-35	568095	5441996	13	105	28	0	0	24565	330	174	5
KN-36	568124	5442000	9	86	35	6	0	24476	620	162	5
KN-37	568136	5442026	7	84	30	6	0	24278	339	115	0
KN-38	568152	5442058	10	108	23	6	0	26700	1175	135	5
KN-39	568148	5442085	14	180	29	6	0	26691	1322	142	7
KN-40	568188	5442079	15	94	42	0	27	27586	494	132	6
KN-41	568208	5442085	7	145	35	5	0	25540	1261	159	4
KN-42	568234	5442090	11	207	25	5	0	25636	2065	181	4
KN-43	568249	5442057	48	476	25	0	0	22965	687	197	4
KN-44	568306	5441995	0	73	58	0	0	30564	648	131	5
KN-45	568327	5441997	0	77	24	5	0	28472	721	206	6
KN-46	568341	5442027	0	137	50	6	33	30343	997	183	0
KN-47	568324	5442049	9	191	57	0	0	26954	1900	177	5
KN-48	568326	5442075	19	348	38	8	33	29953	772	160	4
KN-49	568314	5442103	7	229	24	0	0	22775	746	175	4
KN-50	568319	5442128	7	113	47	0	0	22754	370	170	0
KN-51	568291	5442134	0	121	23	0	0	21664	609	157	4
KN-52	567786	5440854	11	137	45	7	37	32057	791	165	4
KN-53	567825	5440843	0	159	20	8	0	23013	831	230	4

SAMPLE	UTM E	UTM N	Pb(ppm)	Zn(ppm)	Cu(ppm)	As(ppm)	Ni(ppm)	Fe(ppm)	Mn(ppm)	Sr(ppm)	Mo(ppm)
KN-54	567849	5440811	12	117	18	0	34	20954	866	214	5
KN-55	567809	5440800	8	113	38	0	0	24237	384	202	4
KN-56	567790	5440778	15	96	31	0	0	24760	477	193	6
KN-57	567764	5440749	14	123	67	0	29	29299	440	203	5
KN-58	567736	5440750	8	124	29	0	0	21974	1084	206	5
KN-59	567731	5440787	11	146	56	7	30	31855	554	156	4

Station	Utm East	Utm North	Pb(ppm)	Zn(ppm)	Cu(ppm)	As(ppm)	Ni(ppm)	Fe(ppm)	Mn(ppm)	Sr(ppm)	Mo(ppm)
CKKEN-1	568153	5442408	0	45	26	0	51	14050	337	130	5
CKKEN-2	568153	5442408	7	54	22	0	32	13034	179	152	6
CKKEN-3	568155	5442402	0	64	0	0	45	31906	512	105	6
CKKEN-4	568155	5442402	0	46	30	0	59	29264	388	86	4
CKKEN-5	568156	5442415	9	47	0	9	48	28144	451	99	0
CKKEN-6	568149	5442433	13	52	34	0	37	33657	465	116	5
CKKEN-7	568159	5442372	36	100	0	0	40	11236	275	182	0
CKKEN-8	568155	5442364	8	23	24	8	0	9525	255	151	6
CKKEN-9	568157	5442358	0	50	19	0	50	5867	211	97	5
CKKEN-10	568154	5442336	0	32	27	0	59	15592	291	143	0
CKKEN-11	568271	5442020	45	68	26	0	0	13167	241	39	5
CKKEN-12	567983	5441263	29	170	476	0	80	40602	659	28	5
CKKEN-12a	567983	5441263	8	166	0	0	95	49151	871	15	5
CKKEN-12b	567983	5441263	14	149	21	0	75	34002	558	23	0
KC-3	568106	5442423	0	34	21	33	117	78482	4253	45	0
KC-4	568129	5442335	36	102	29	0	50	19425	516	166	7
KC-7	568168	5441881	61	76	20	0	55	15980	334	59	6
KC-8	568171	5441866	110	133	0	0	35	8280	321	45	4
KC-9	568192	5441795	555	175	158	0	53	58217	539	26	0
KC-10	568206	5441770	19	61	56	0	70	25256	487	38	0
KC-11	568209	5441771	0	40	0	0	72	22692	376	30	0
KC-93	568168	5441996	20	47	0	0	49	17469	342	161	0
KC-94	568171	5441892	49	160	18	0	50	13819	940	72	4
KC-95	568148	5441866	9	34	0	0	36	9441	342	49	20
KC-95b	568148	5441866	16	29	18	8	53	6950	280	59	5
KC-95a	568148	5441866	0	28	0	0	46	5315	222	56	4
KC-96	568136	5441770	109	97	32	0	77	25275	524	69	8
KC-96a	568136	5441770	78	52	22	0	49	17316	366	36	10
KC-97	568111	5441541	129	169	35	0	61	15570	465	40	5
KC-98	568028	5441372	0	136	48	0	42	17380	439	20	7
KC-99	568007	5441384	283	64	30	0	43	10242	336	95	6

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Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

Client: **Kootenay Silver Inc.**
1650 - 1075 W. Georgia St.
Vancouver British Columbia V6E 3C9 Canada

Submitted By: Email Distribution List - Soil & Rock
Receiving Lab: Canada-Vancouver
Received: August 01, 2019
Report Date: August 15, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN19002065.1

CLIENT JOB INFORMATION

Project: KENNCO
Shipment ID:
P.O. Number
Number of Samples: 16

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	16	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	16	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

ADDITIONAL COMMENTS

Invoice To: Kootenay Silver Inc.
1650 - 1075 W. Georgia St.
Vancouver British Columbia V6E 3C9
Canada

CC:

JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Kootenay Silver Inc.**
1650 - 1075 W. Georgia St.
Vancouver British Columbia V6E 3C9 Canada

Project: KENNCO
Report Date: August 15, 2019

CERTIFICATE OF ANALYSIS VAN19002065.1

Method		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
CK19-01	Rock	0.31	0.1	1.9	8.3	77	0.2	173.8	1432.9	483	7.03	>10000	181.2	3.1	49	0.2	58.3	20.6	59	0.76	0.020
CK19-02	Rock	0.26	0.2	1.3	13.4	112	0.3	149.7	1111.1	504	8.79	>10000	130.2	2.5	76	0.1	67.9	16.8	112	0.73	0.037
CK19-03	Rock	0.29	1.1	65.4	11.4	160	<0.1	60.9	40.9	1060	6.15	475.0	4.3	2.1	26	0.1	3.2	0.8	133	0.73	0.030
CK19-04	Rock	0.32	0.8	11.0	3.5	562	<0.1	40.9	33.8	2903	13.82	285.6	0.8	13.0	2	<0.1	2.1	0.3	27	0.03	0.019
CK19-05	Rock	0.27	0.4	11.4	5.2	333	<0.1	14.7	12.3	577	7.24	58.2	<0.5	15.3	2	<0.1	1.9	0.5	28	0.03	0.020
CK19-06	Rock	0.34	0.4	2.9	1.9	818	<0.1	23.6	13.1	5503	15.80	59.8	<0.5	13.5	2	0.1	1.9	<0.1	40	0.03	0.018
CK19-07	Rock	0.35	0.8	10.8	6.0	176	0.1	26.9	6.6	429	4.03	228.9	11.5	8.9	13	<0.1	5.0	0.4	65	0.20	0.018
CK19-08	Rock	0.31	0.3	15.2	7.5	57	<0.1	15.1	7.4	444	2.71	13.4	<0.5	10.1	9	<0.1	0.3	0.1	16	0.44	0.021
CK19-09	Rock	0.32	0.2	117.4	26.7	131	0.4	23.7	14.0	1310	10.02	21.0	9.3	14.5	2	<0.1	2.2	1.3	32	0.05	0.029
CK19-10	Rock	0.36	0.3	80.1	14.6	51	0.2	4.3	5.1	269	5.28	54.2	2.9	10.7	3	<0.1	0.9	0.6	14	0.05	0.020
CK19-88	Rock	0.41	0.6	52.4	1.4	43	<0.1	9.3	7.3	211	5.16	25.0	6.2	19.6	3	<0.1	0.4	<0.1	15	0.04	0.020
CK19-89	Rock	0.53	1.3	71.6	11.9	119	<0.1	29.9	64.1	3276	19.59	124.7	136.4	10.8	4	0.1	1.1	0.3	67	0.07	0.013
CK19-90	Rock	0.33	0.7	16.9	3.9	83	<0.1	17.9	23.9	1874	11.62	28.4	6.8	11.1	6	<0.1	0.6	<0.1	35	0.09	0.044
CK19-91	Rock	0.36	1.0	19.9	5.0	152	<0.1	21.3	36.0	3788	15.64	13.1	24.9	12.4	4	0.2	0.5	<0.1	58	0.05	0.016
CK19-92	Rock	0.36	1.5	76.2	17.7	125	<0.1	13.5	17.2	580	8.20	6.2	2.1	21.5	4	0.2	0.6	<0.1	19	0.04	0.031
CK19-93	Rock	0.38	1.4	2916.1	263.8	92	1.7	32.7	128.6	3847	18.43	6.4	168.4	3.1	2	0.5	0.9	20.9	80	0.10	0.003

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Client: **Kootenay Silver Inc.**
1650 - 1075 W. Georgia St.
Vancouver British Columbia V6E 3C9 Canada

Project: KENNCO
Report Date: August 15, 2019

CERTIFICATE OF ANALYSIS VAN19002065.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
CK19-01	Rock	7	54	0.99	19	0.027	1	2.17	0.015	0.42	<0.1	<0.01	9.0	0.4	1.39	3	1.1	1.2
CK19-02	Rock	9	49	1.13	20	0.031	1	2.55	0.023	0.75	0.1	<0.01	13.8	0.7	1.04	5	1.6	1.3
CK19-03	Rock	7	80	1.51	5	0.071	1	3.09	0.007	0.08	<0.1	<0.01	17.2	0.7	<0.05	5	<0.5	<0.2
CK19-04	Rock	32	9	0.04	18	0.001	2	0.48	0.003	0.26	0.1	0.01	12.5	1.0	<0.05	<1	<0.5	<0.2
CK19-05	Rock	32	12	0.05	24	0.002	3	0.71	0.004	0.32	<0.1	<0.01	9.5	1.9	<0.05	1	<0.5	<0.2
CK19-06	Rock	30	7	0.03	23	<0.001	1	0.41	0.003	0.22	0.2	<0.01	16.1	1.4	<0.05	<1	<0.5	<0.2
CK19-07	Rock	36	28	0.26	34	0.003	2	1.63	0.008	0.32	<0.1	<0.01	10.5	4.1	<0.05	3	<0.5	<0.2
CK19-08	Rock	15	17	0.43	112	0.114	<1	2.10	0.069	0.80	<0.1	<0.01	2.2	1.1	<0.05	5	<0.5	<0.2
CK19-09	Rock	11	22	0.72	12	0.007	<1	3.13	0.008	0.16	<0.1	<0.01	5.3	0.2	0.90	12	<0.5	<0.2
CK19-10	Rock	16	10	0.19	16	0.007	<1	1.24	0.007	0.20	<0.1	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2
CK19-88	Rock	23	9	0.37	117	0.026	1	1.34	0.029	0.34	0.2	<0.01	4.5	0.3	<0.05	4	<0.5	<0.2
CK19-89	Rock	40	13	1.25	20	0.009	<1	2.58	0.005	0.03	<0.1	<0.01	23.4	2.3	<0.05	8	<0.5	<0.2
CK19-90	Rock	39	13	0.93	36	0.017	<1	2.02	0.023	0.10	0.1	<0.01	12.1	0.9	<0.05	6	<0.5	<0.2
CK19-91	Rock	39	20	1.66	34	0.022	<1	3.26	0.013	0.06	0.1	<0.01	18.5	3.1	<0.05	9	<0.5	<0.2
CK19-92	Rock	25	15	0.35	50	0.013	<1	1.30	0.036	0.10	<0.1	<0.01	7.6	0.7	<0.05	5	<0.5	<0.2
CK19-93	Rock	5	2	0.02	33	0.002	<1	0.10	0.002	<0.01	0.1	<0.01	32.5	3.9	3.43	<1	21.5	3.5

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Client: **Kootenay Silver Inc.**
1650 - 1075 W. Georgia St.
Vancouver British Columbia V6E 3C9 Canada

Project: KENNCO
Report Date: August 15, 2019

QUALITY CONTROL REPORT VAN19002065.1

	Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
CK19-06	Rock	0.34	0.4	2.9	1.9	818	<0.1	23.6	13.1	5503	15.80	59.8	<0.5	13.5	2	0.1	1.9	<0.1	40	0.03	0.018
REP CK19-06	QC		0.4	3.2	1.9	797	<0.1	23.0	11.8	5380	15.29	57.5	<0.5	12.4	1	<0.1	1.4	<0.1	39	0.03	0.016
Core Reject Duplicates																					
CK19-04	Rock	0.32	0.8	11.0	3.5	562	<0.1	40.9	33.8	2903	13.82	285.6	0.8	13.0	2	<0.1	2.1	0.3	27	0.03	0.019
DUP CK19-04	QC		0.8	10.9	3.6	562	<0.1	40.2	33.4	2881	13.66	272.0	0.9	12.5	1	<0.1	1.8	0.2	27	0.03	0.019
Reference Materials																					
STD DS11	Standard		13.9	142.6	130.2	336	1.7	75.2	13.2	1025	3.14	46.4	70.4	9.2	69	2.4	9.3	12.1	49	1.05	0.075
STD OREAS262	Standard		0.8	111.9	55.9	153	0.5	60.7	26.6	542	3.30	40.0	76.6	10.4	36	0.7	6.3	1.1	22	2.97	0.042
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	1.8	<0.5	0.2	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-VAN	Prep Blank		0.9	3.0	1.0	31	<0.1	0.5	3.2	461	1.71	1.0	1.7	2.4	25	<0.1	<0.1	<0.1	22	0.60	0.042
ROCK-VAN	Prep Blank		0.9	3.1	1.0	31	<0.1	0.5	3.0	449	1.67	1.1	0.5	2.6	23	<0.1	<0.1	<0.1	22	0.58	0.040

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Project: KENNCO
Report Date: August 15, 2019

QUALITY CONTROL REPORT VAN19002065.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
CK19-06	Rock	30	7	0.03	23	<0.001	1	0.41	0.003	0.22	0.2	<0.01	16.1	1.4	<0.05	<1	<0.5	<0.2
REP CK19-06	QC	27	7	0.03	21	<0.001	1	0.37	0.003	0.20	0.1	<0.01	14.7	1.2	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																		
CK19-04	Rock	32	9	0.04	18	0.001	2	0.48	0.003	0.26	0.1	0.01	12.5	1.0	<0.05	<1	<0.5	<0.2
DUP CK19-04	QC	28	9	0.04	17	0.002	2	0.45	0.004	0.24	<0.1	<0.01	12.4	1.0	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	19	60	0.84	379	0.090	7	1.20	0.073	0.41	3.1	0.25	3.1	5.0	0.27	5	1.8	4.5
STD OREAS262	Standard	17	42	1.18	247	0.002	4	1.41	0.068	0.32	0.2	0.16	3.4	0.5	0.26	4	<0.5	0.2
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-VAN	Prep Blank	7	3	0.41	55	0.071	2	0.84	0.093	0.09	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
ROCK-VAN	Prep Blank	6	3	0.41	51	0.066	3	0.80	0.083	0.08	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2